Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD
Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 1 of 7
Black Lowe & Graham, PLLC
(206) 381-3300



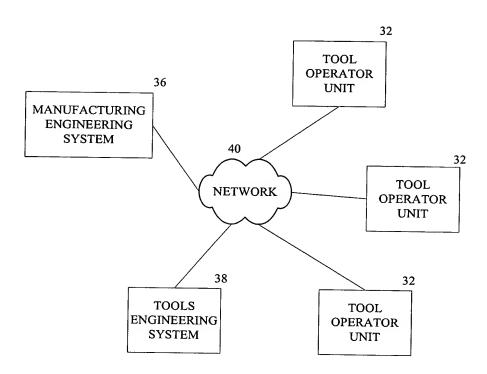


FIG.1A.

Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD
Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 2 of 7
Black Lowe & Graham, PLLC
(206) 381-3300

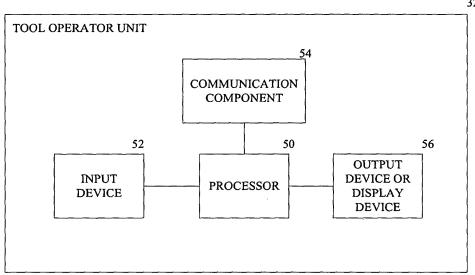


FIG. 1B.

32

Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD
Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 3 of 7
Black Lowe & Graham, PLLC
(206) 381-3300

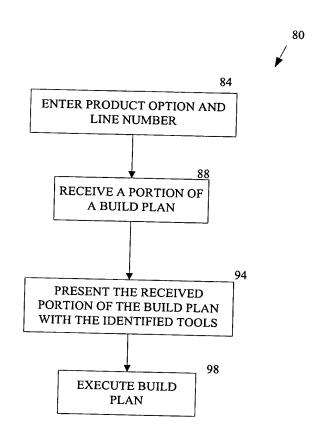
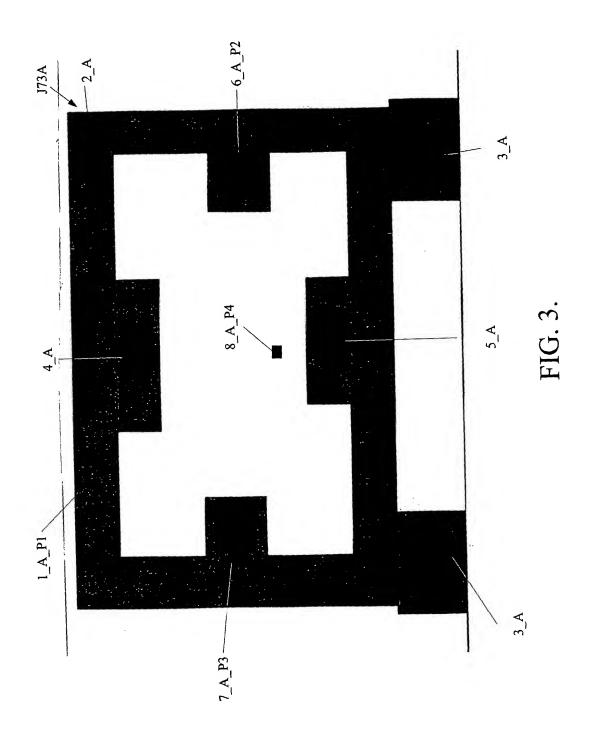


FIG. 2.

Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD
Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 4 of 7
Black Lowe & Graham, PLLC
(206) 381-3300

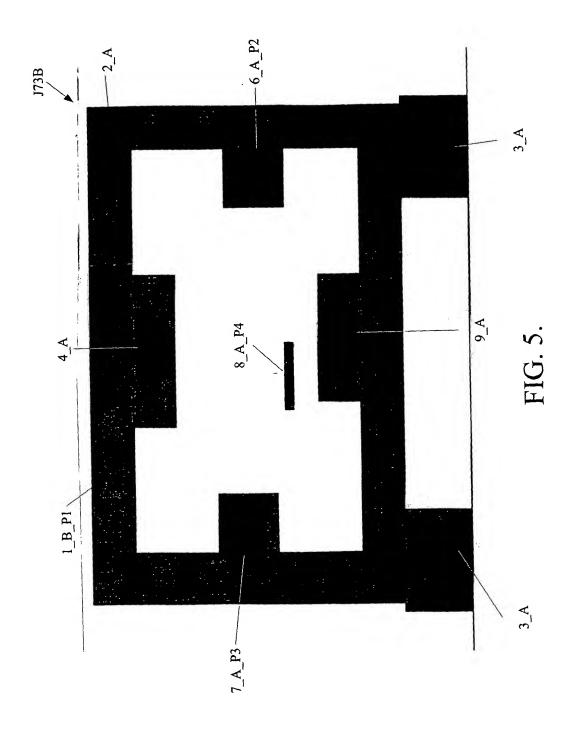


Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 3 of 7
Black Lowe & Graham, PLLC
(206) 381-3300

108 -> OP 40 10-6-> OP 30 110 --> OP 50 → OP 20 Plan Attach panel to Min Assy (1) Retrieve Tool 173A Drill holesx, y, v, z with dill feature Installs Harlander (6-A-P2) Install stiffener locator (7_A_P3) 5-A.

1. 6. 4.

Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD
Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 6 of 7
Black Lowe & Graham, PLLC
(206) 381-3300



Bowman et al.
Attorney Docket No. BOEI-1-1172
TOOL OPERATOR INSTRUCTIONS SYSTEM AND METHOD
Filed: August 28, 2003
Express Mail No. EL476463463
Sheet 7 of 7
Black Lowe & Graham, PLUC
(206) 381-3300

210 OP 50	208 — OP 40	7% — OP 30	204 — OP 20	OP 10	Plan
Drill hole x, y, v, z with dail farture (9_A)	Install Sifferer locator (7_A_P3)	Install stiffener locator (6_A_P2)	Attach 73W12-1 panel to Main Assy (1_B_P1) pin (8_A_P4)	Retrieve Tool J738	IP 73456 to build up panel

BO